09932406.081201

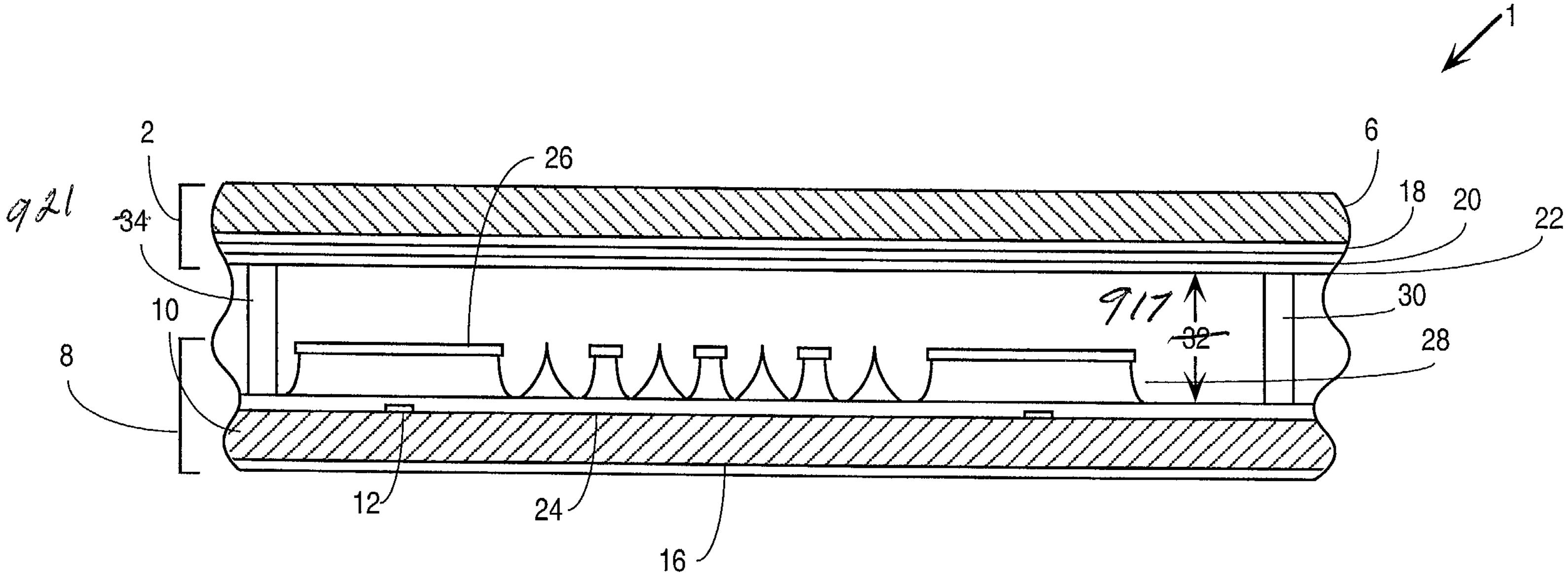

Fig. 1
(Prior Art)

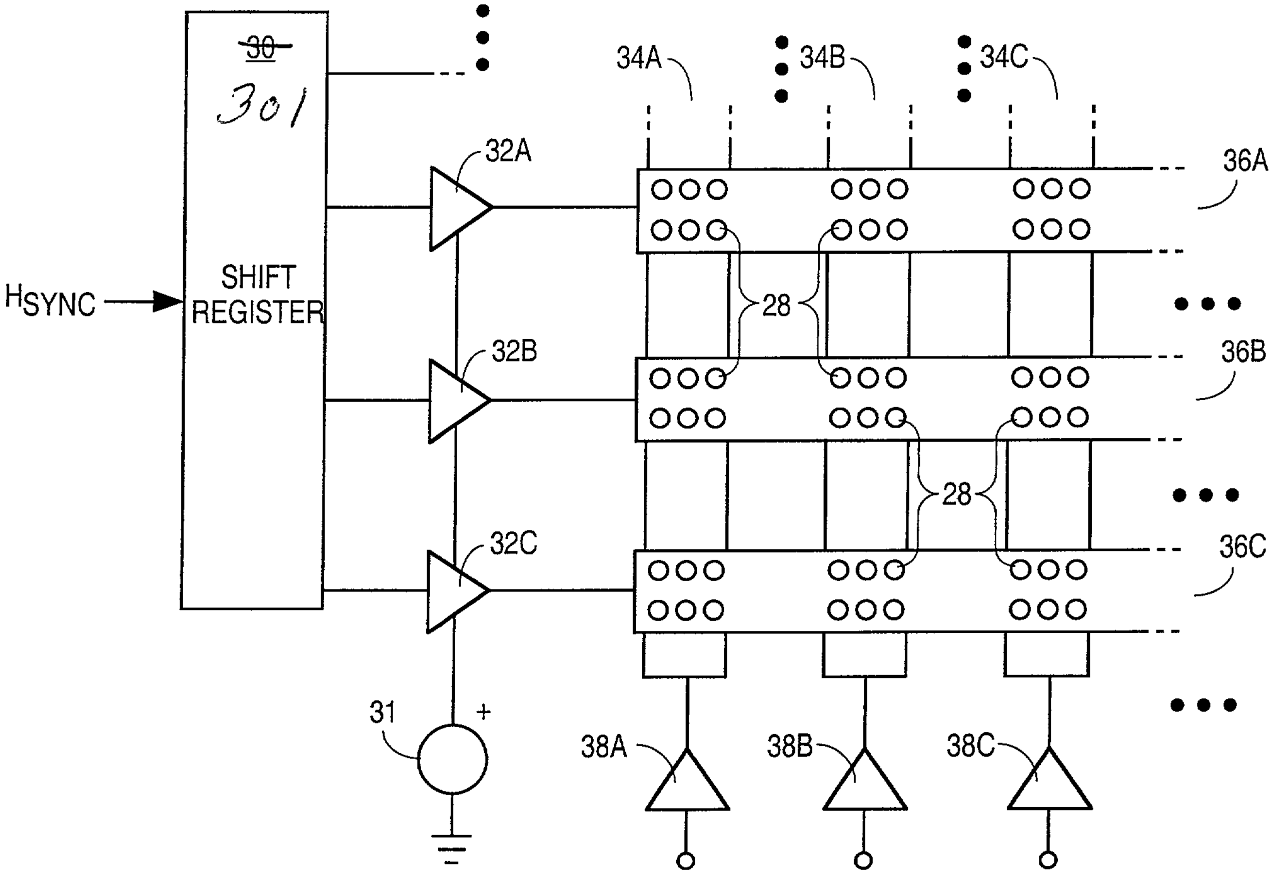

Fig. 2
(Prior Art)

09532406 . 120201

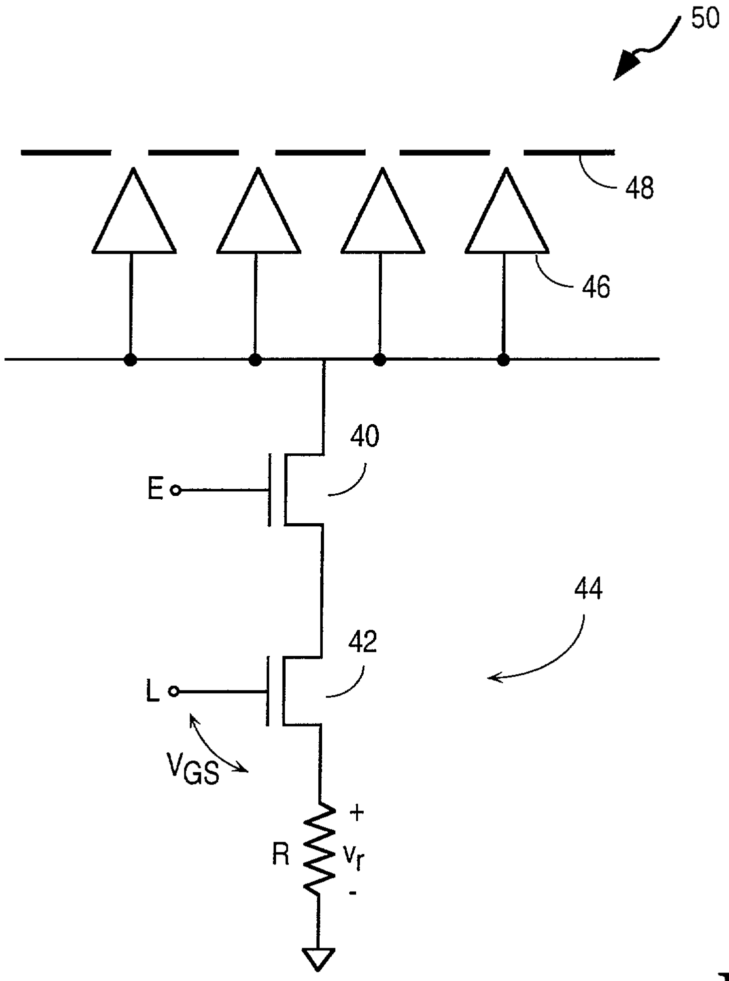

Fig. 3
(Prior Art)

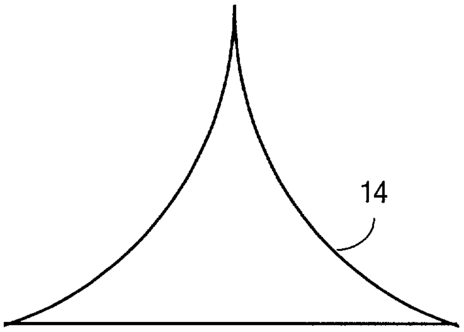

Fig. 4
(Prior Art)

09932406.081201

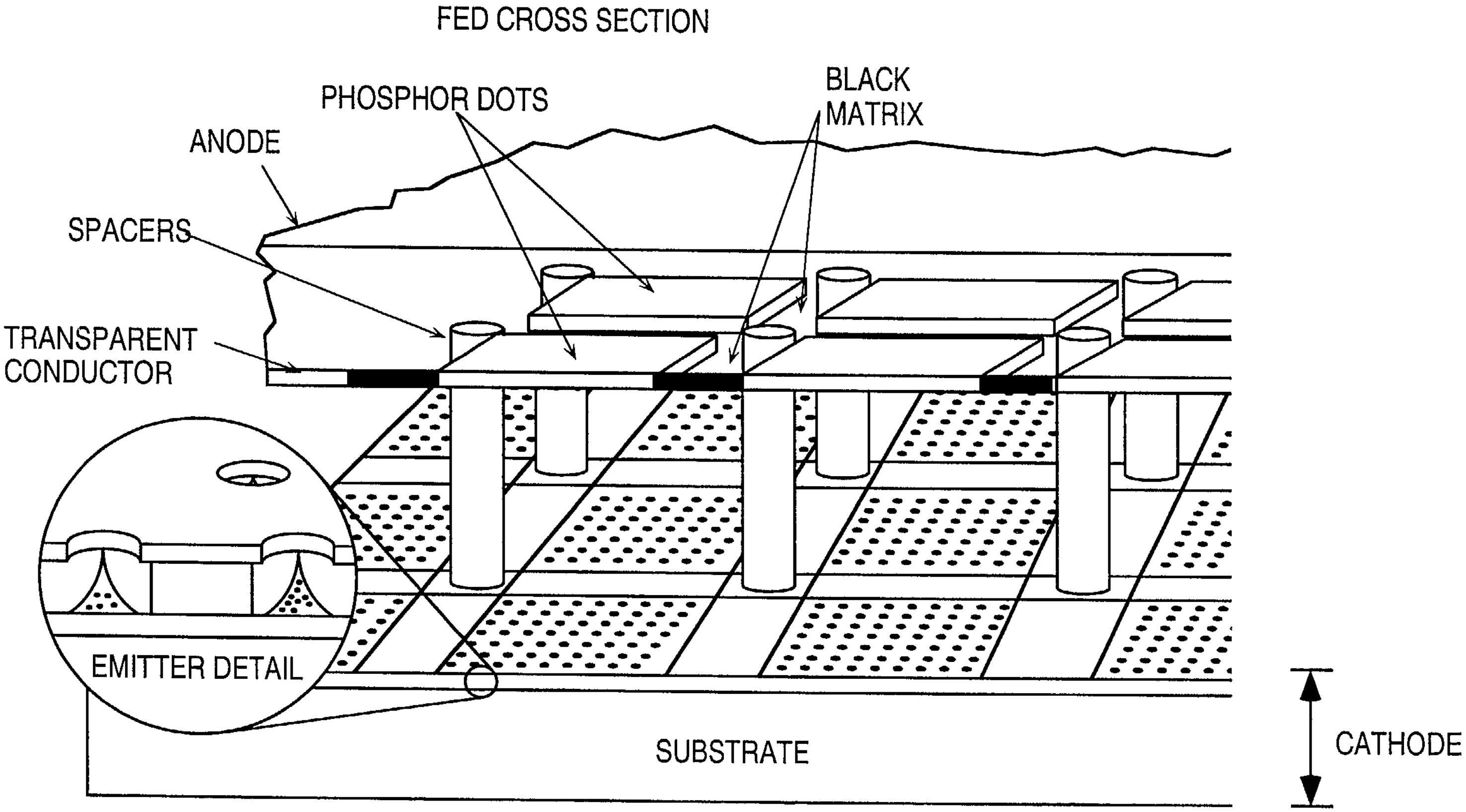

Fig. 5
(Prior Art)

09932406.081701

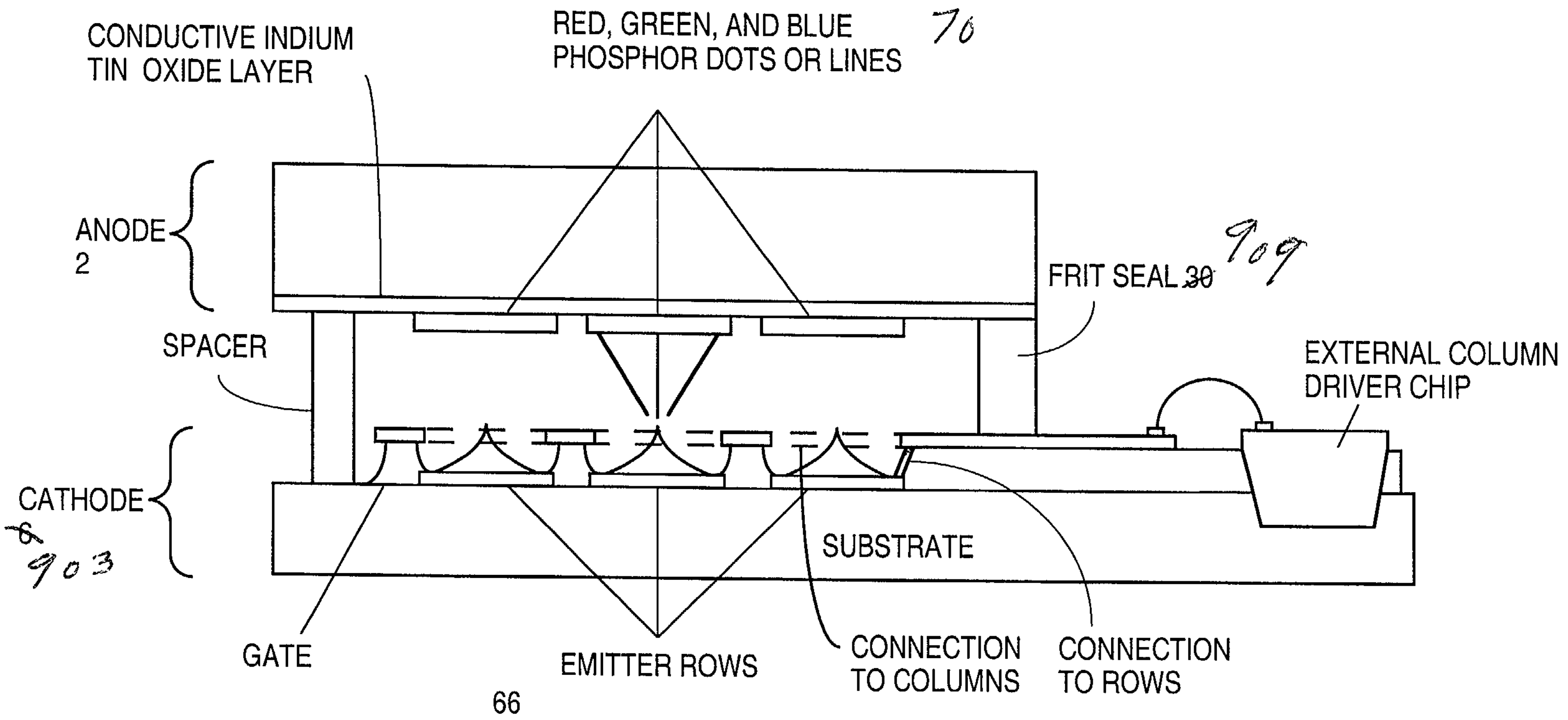

Fig. 6
(Prior Art)

1027180.60423960

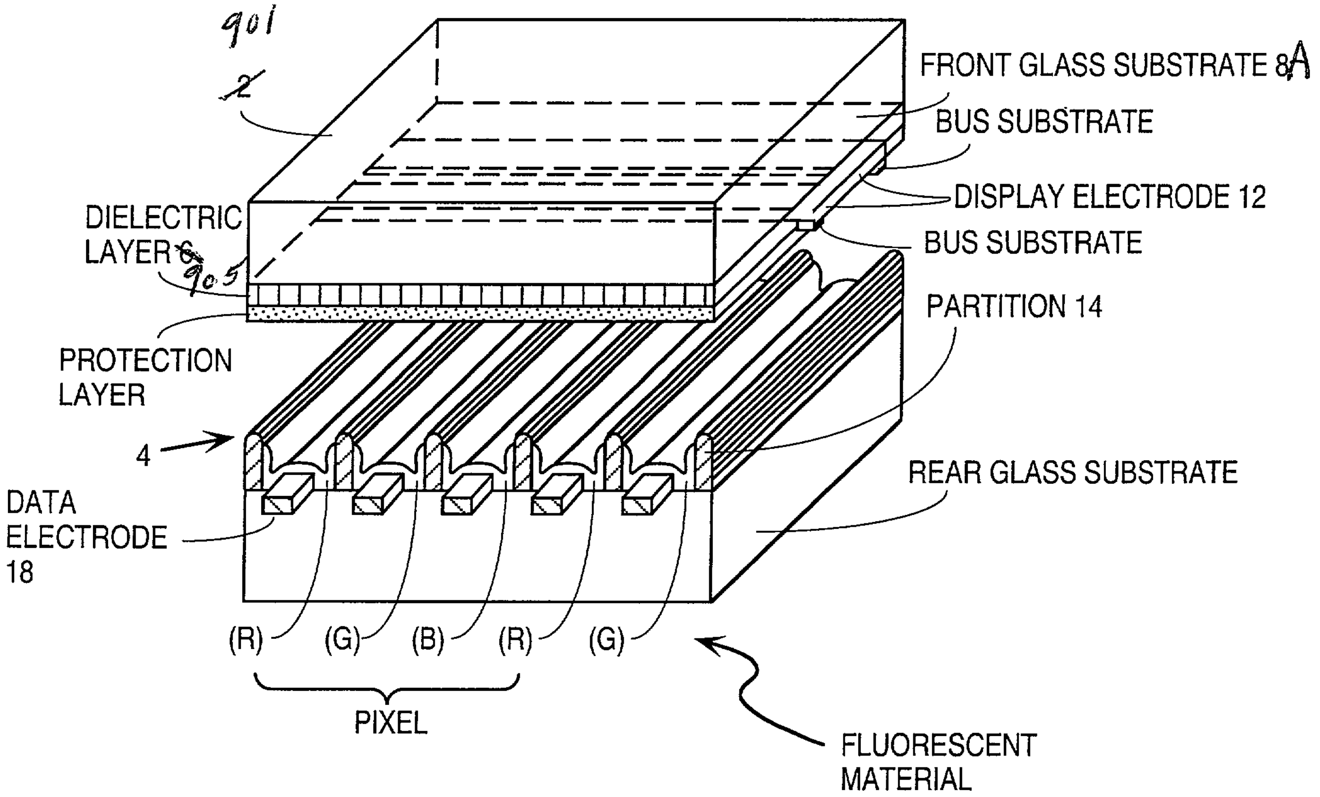

Fig. 7
(Prior Art)

09932406.081701

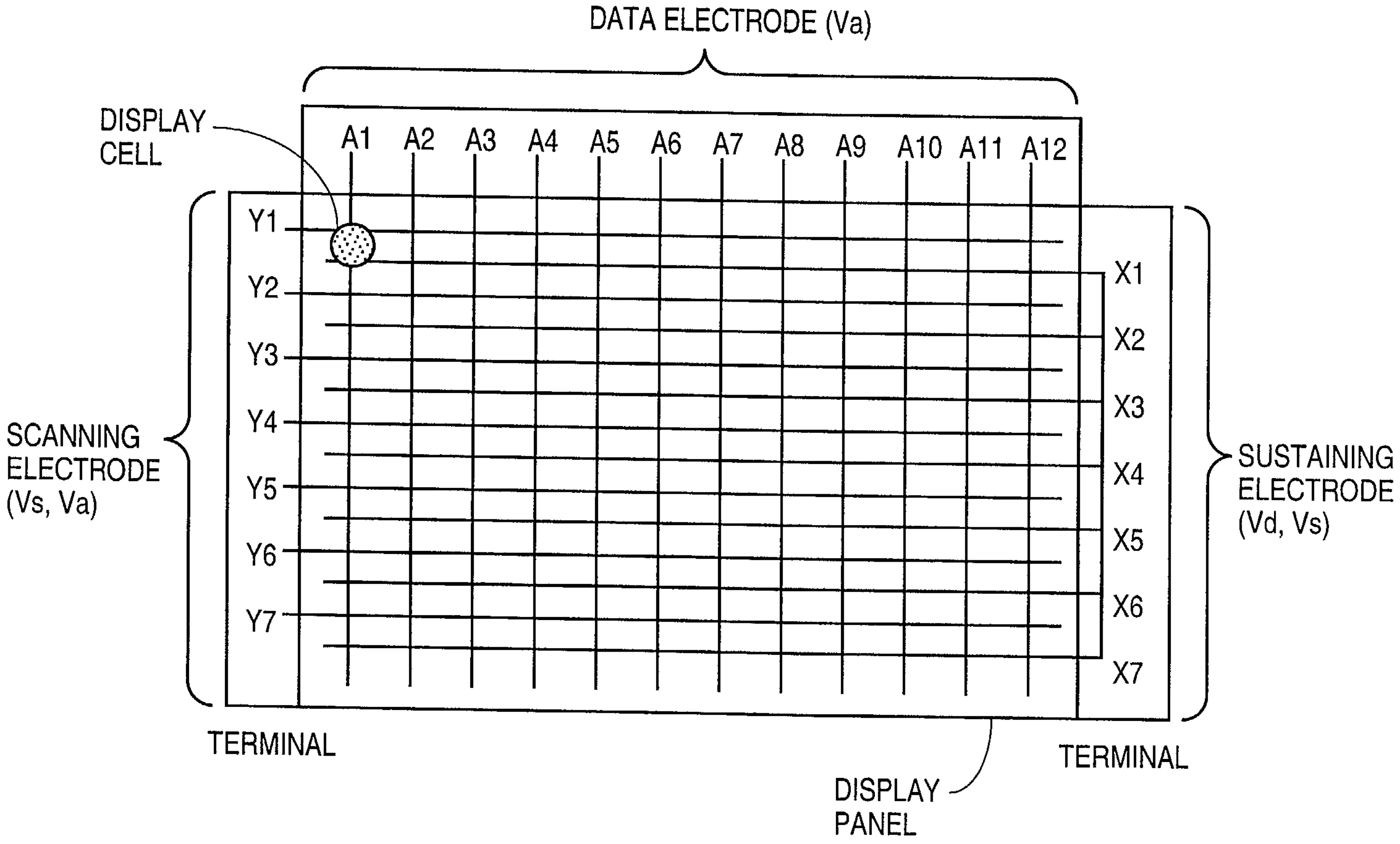

Fig. 8
(Prior Art)

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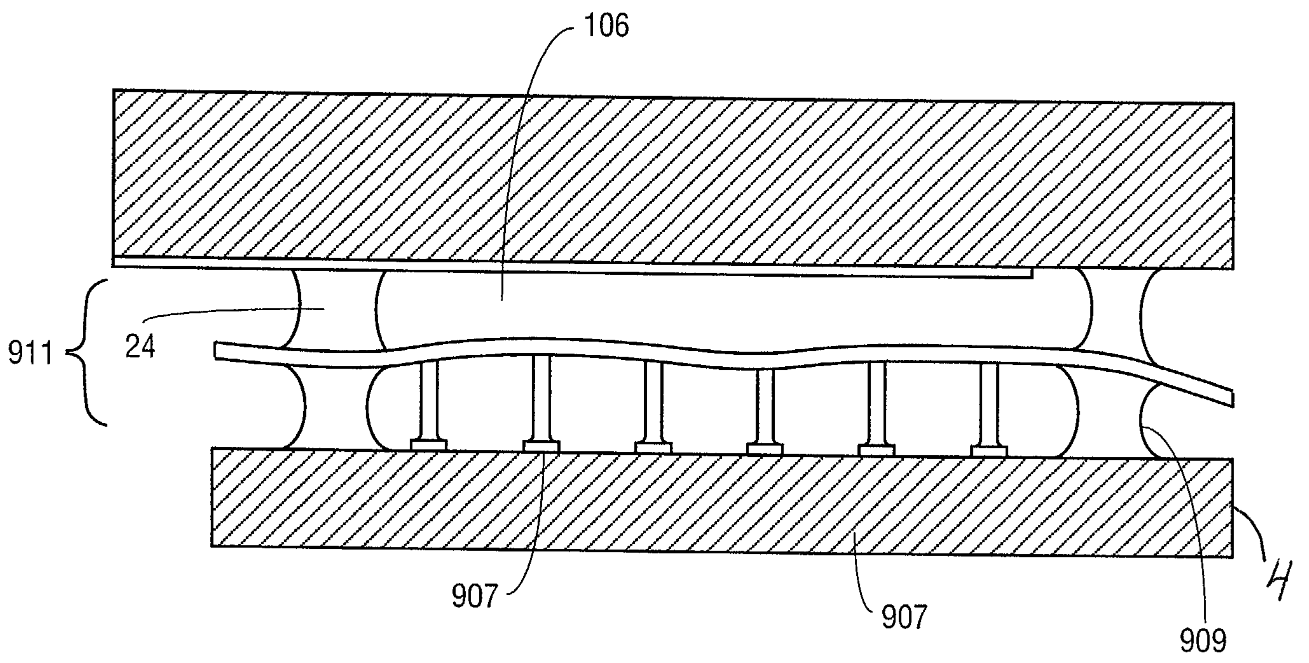


Fig. 9
(Prior Art)

09693245.102401

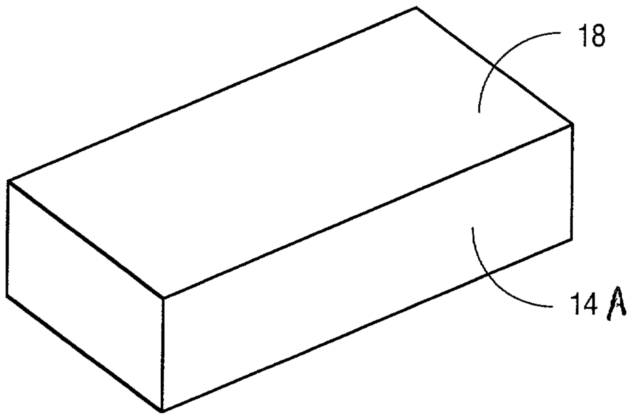


Fig. 10
(Prior Art)

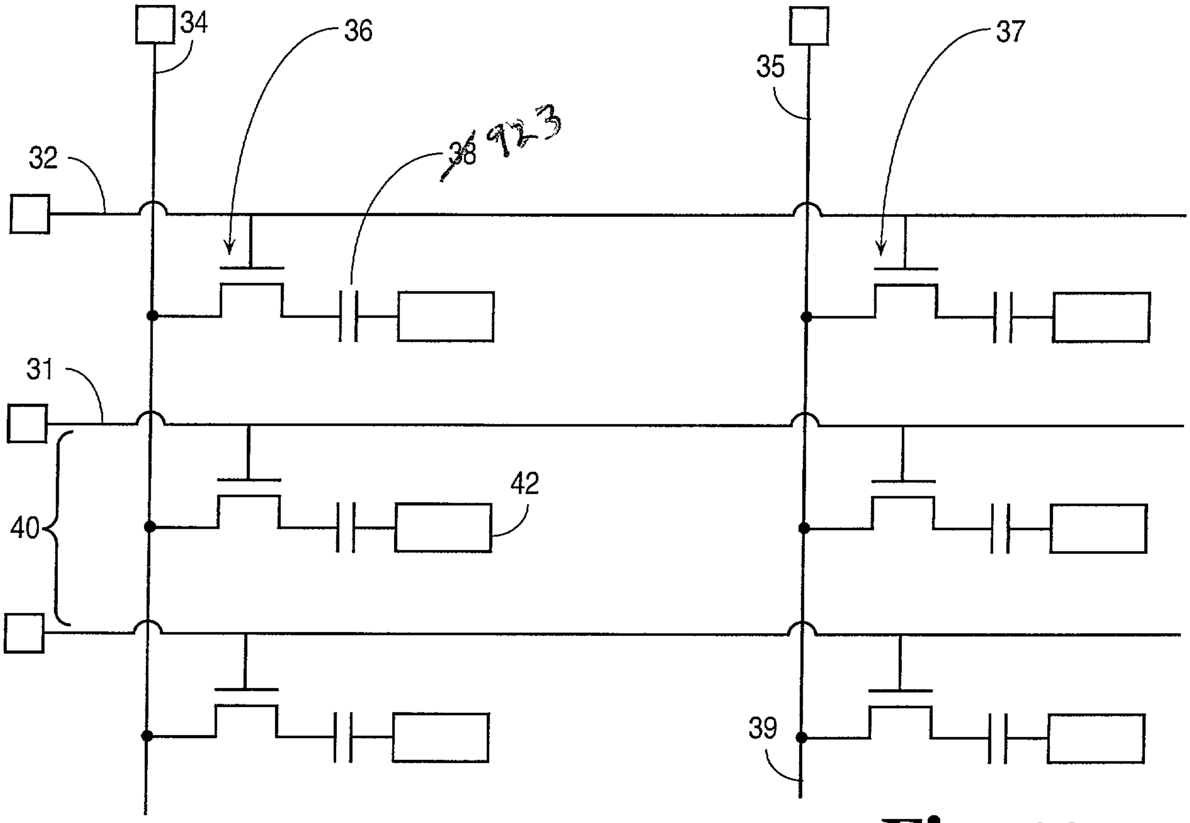


Fig. 11
(Prior Art)

09932406 .081701

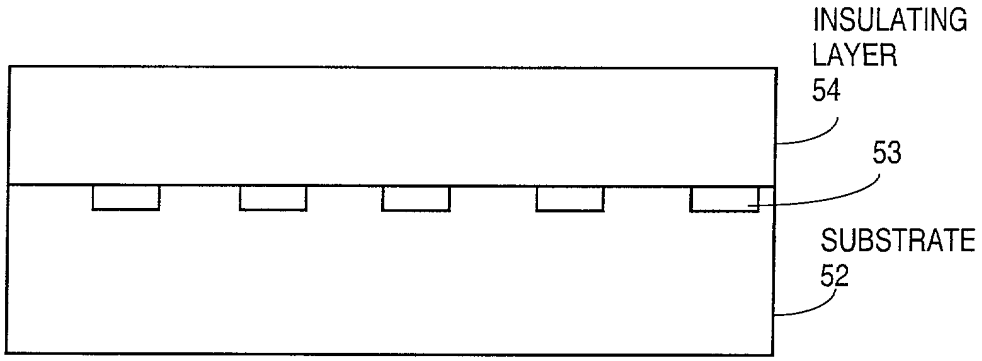


Fig. 12A

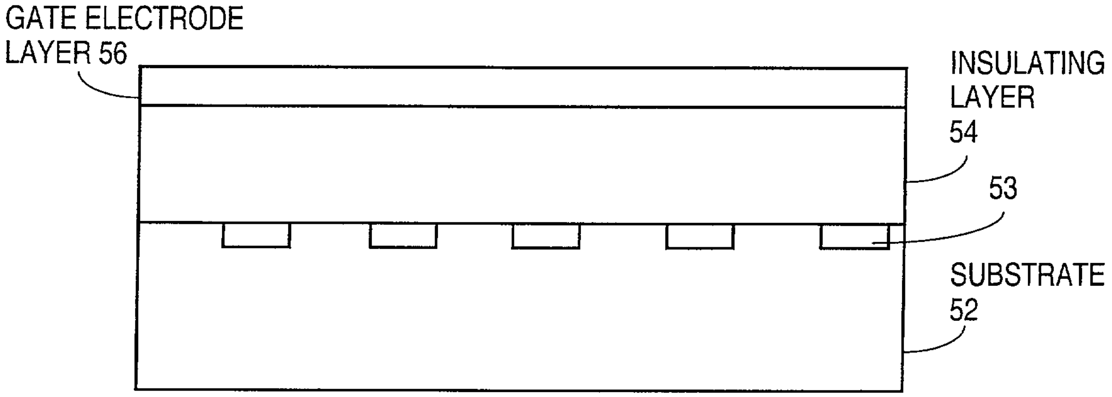


Fig. 12B

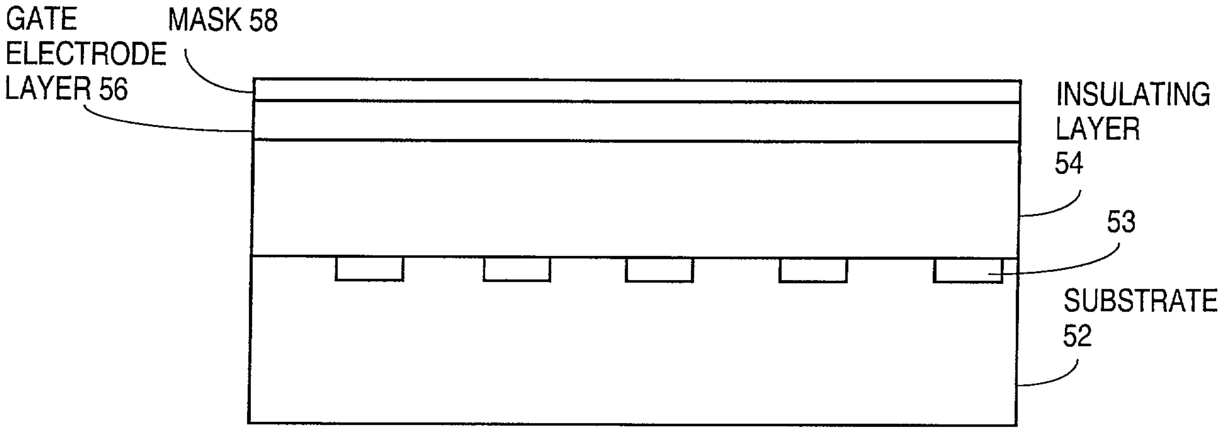


Fig. 12C

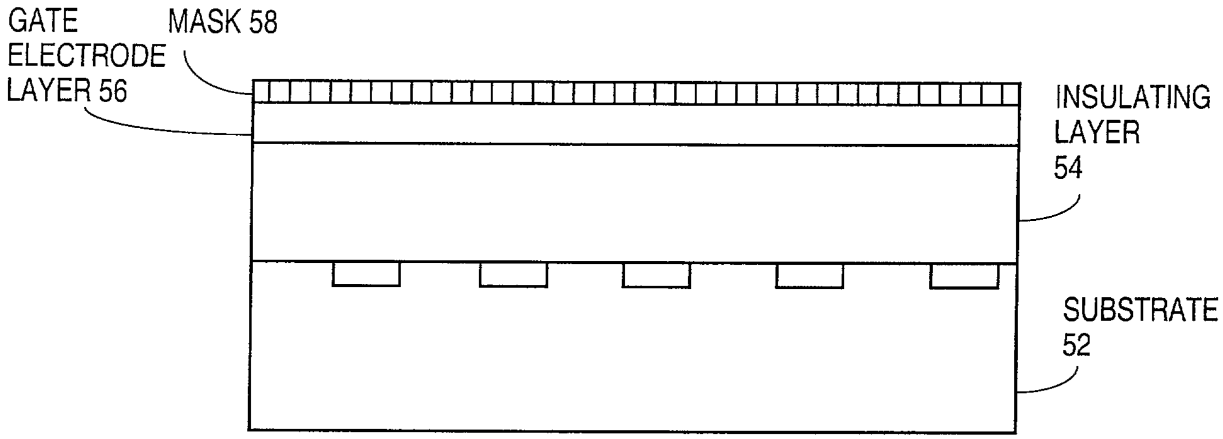


Fig. 12D

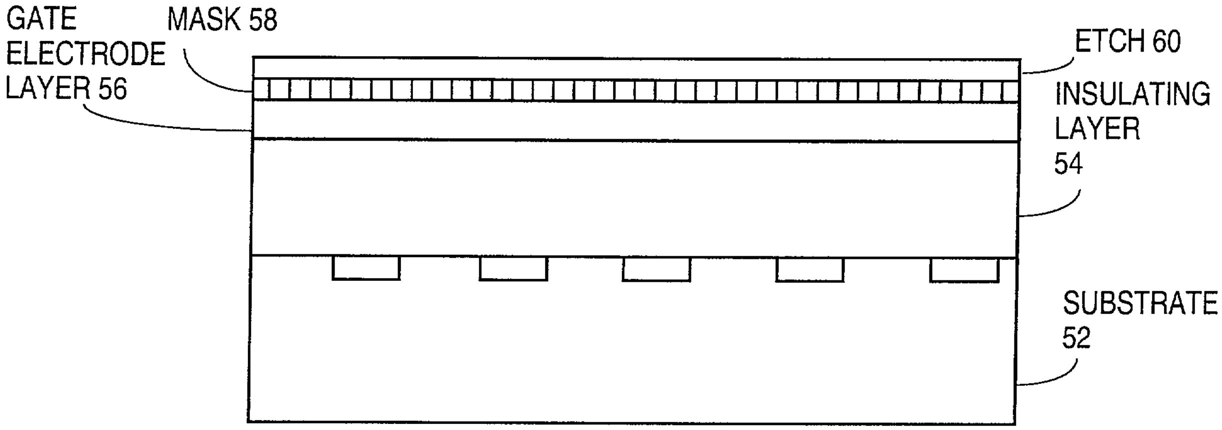


Fig. 12E

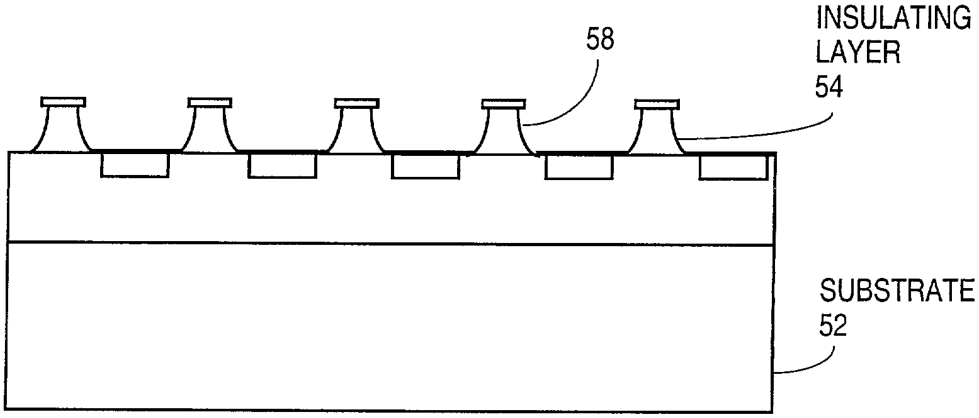


Fig. 12F

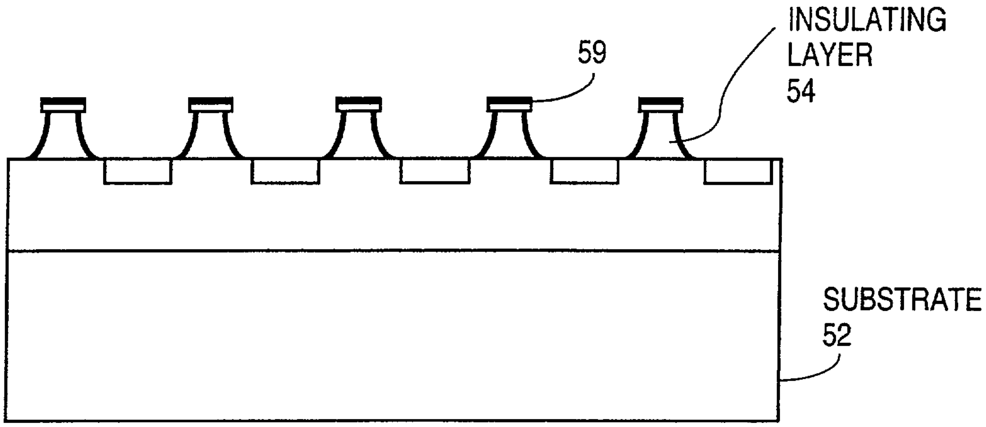


Fig. 12G

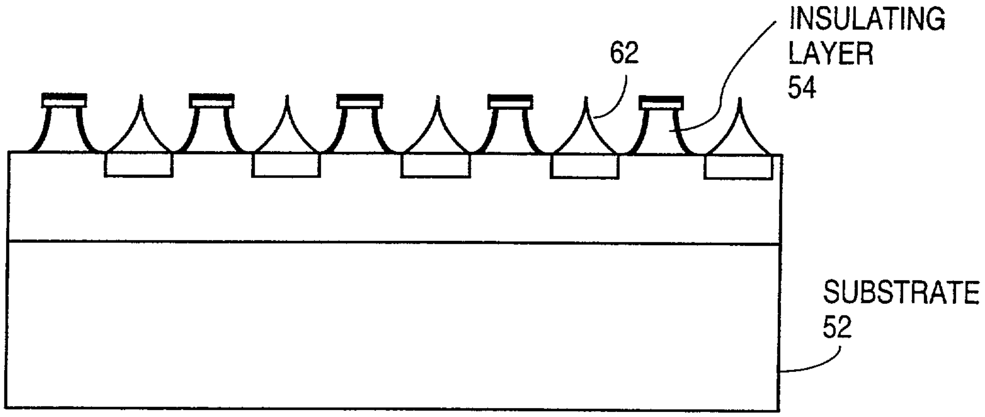


Fig. 12H

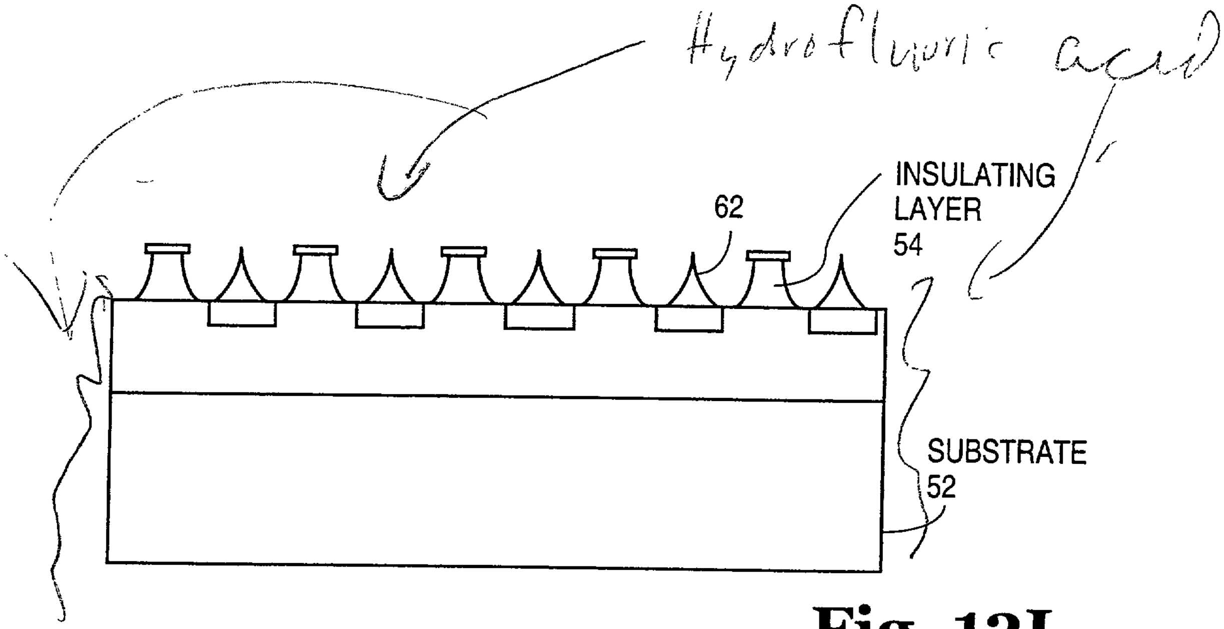


Fig. 12I

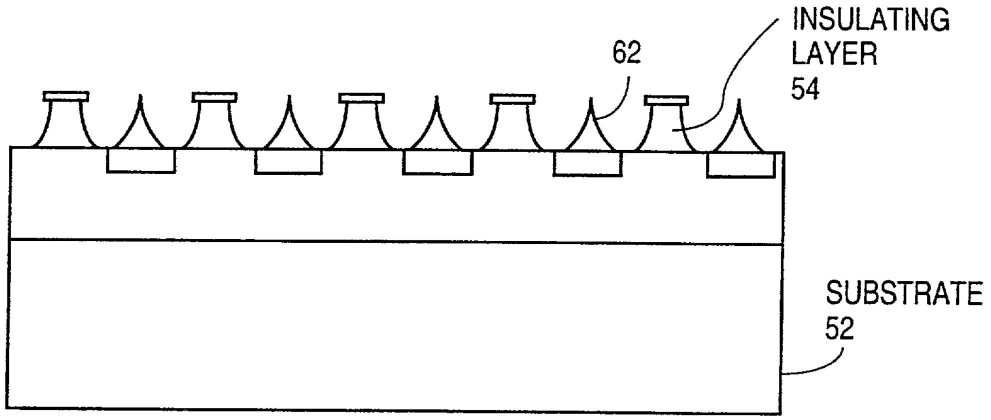


Fig. 12J

09932406 .081701

09932406.081701

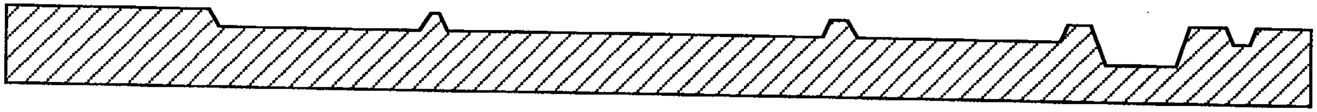


Fig. 12K

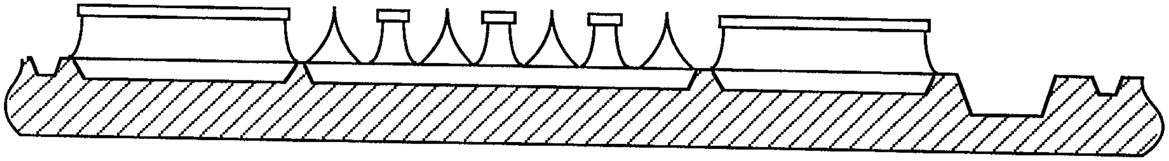


Fig. 12L

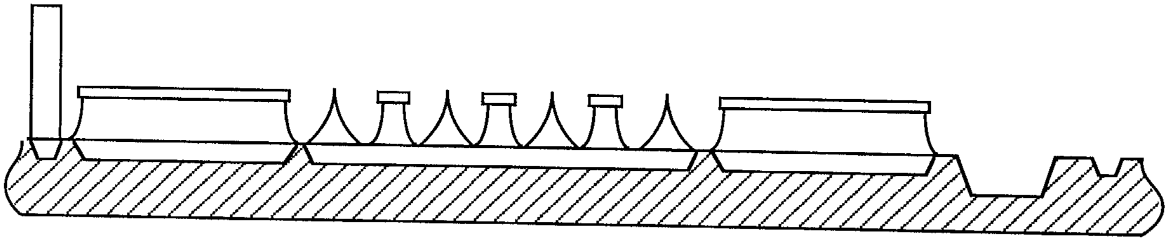


Fig. 12M

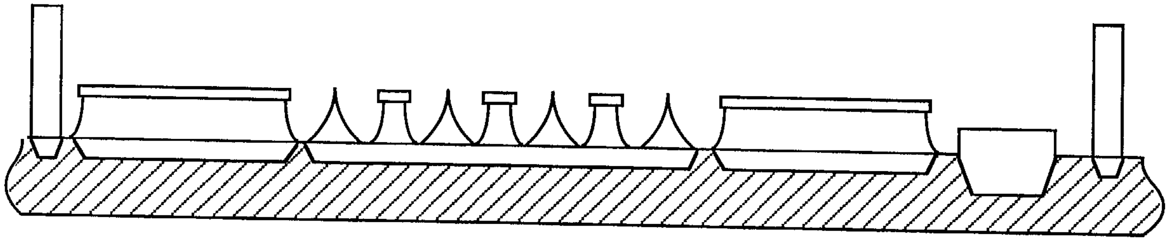


Fig. 12N

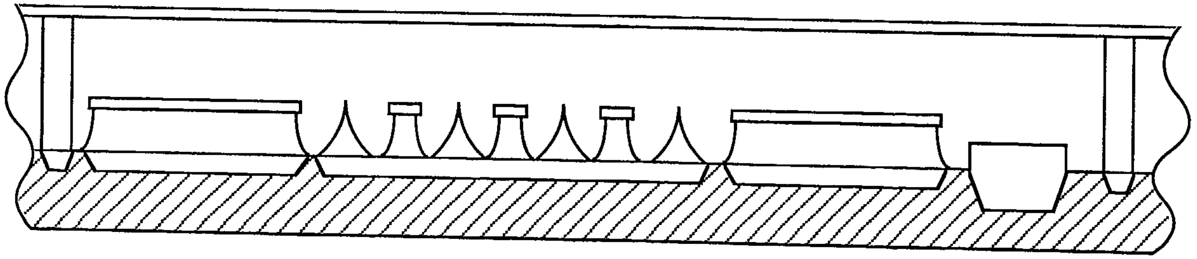


Fig. 12O

09932406.081701

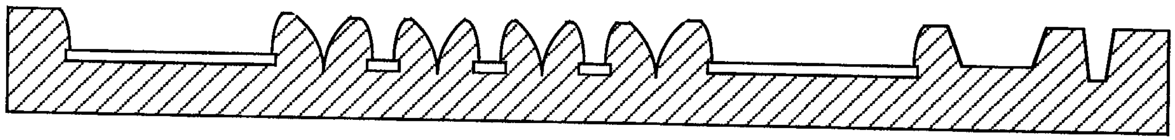


Fig. 13A

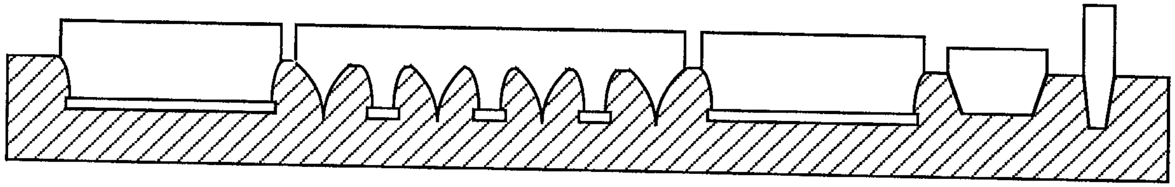


Fig. 13B

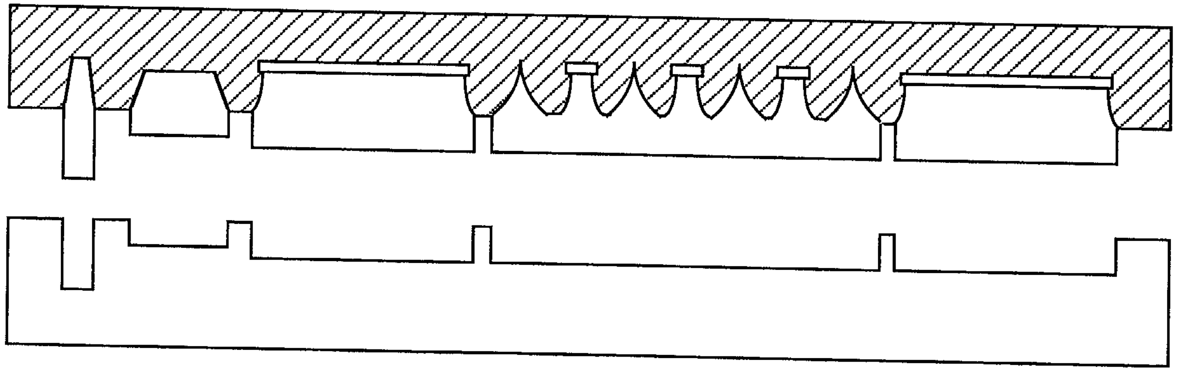


Fig. 13C

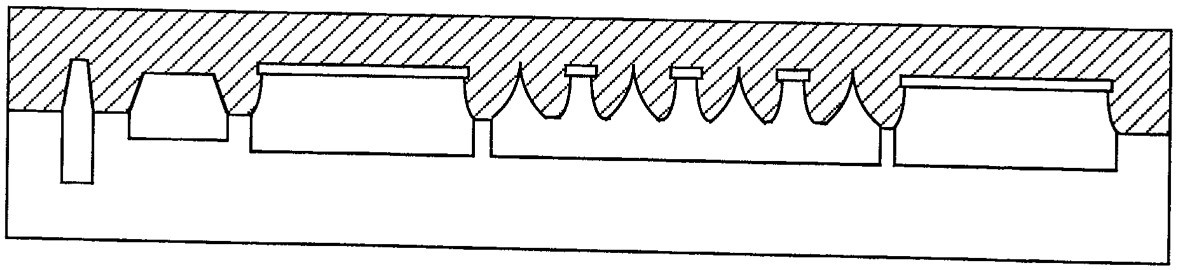


Fig. 13D

09932406 .081701

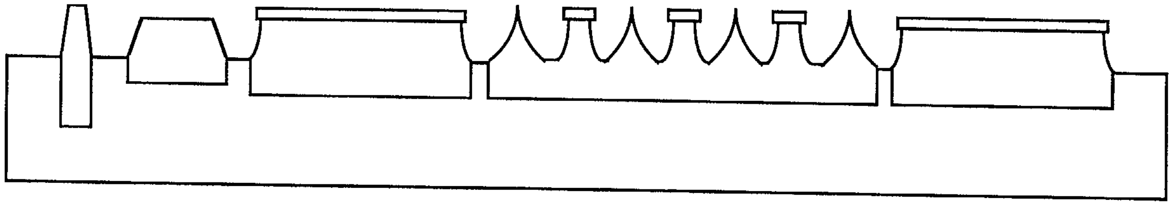


Fig. 13E

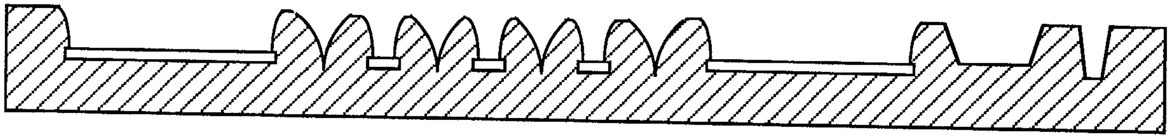


Fig. 14A

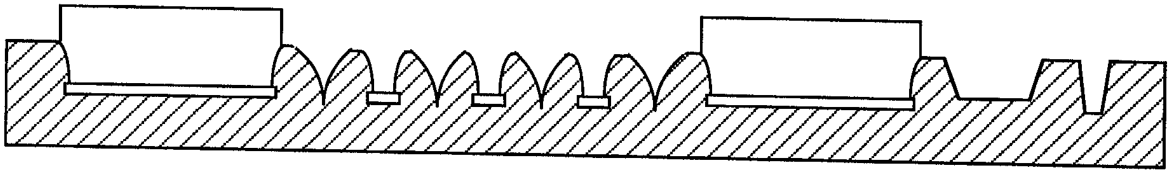


Fig. 14B

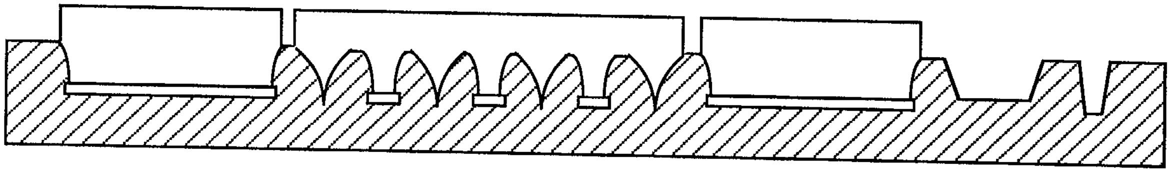


Fig. 14C

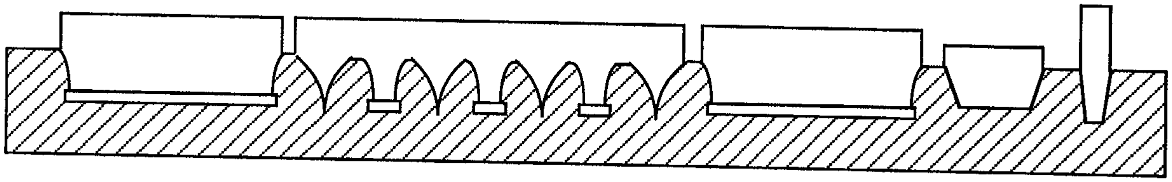


Fig. 14D

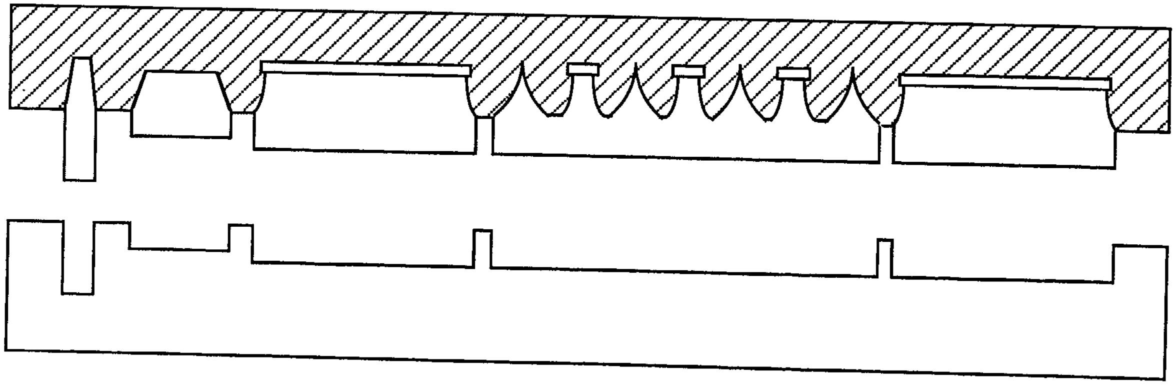


Fig. 14E

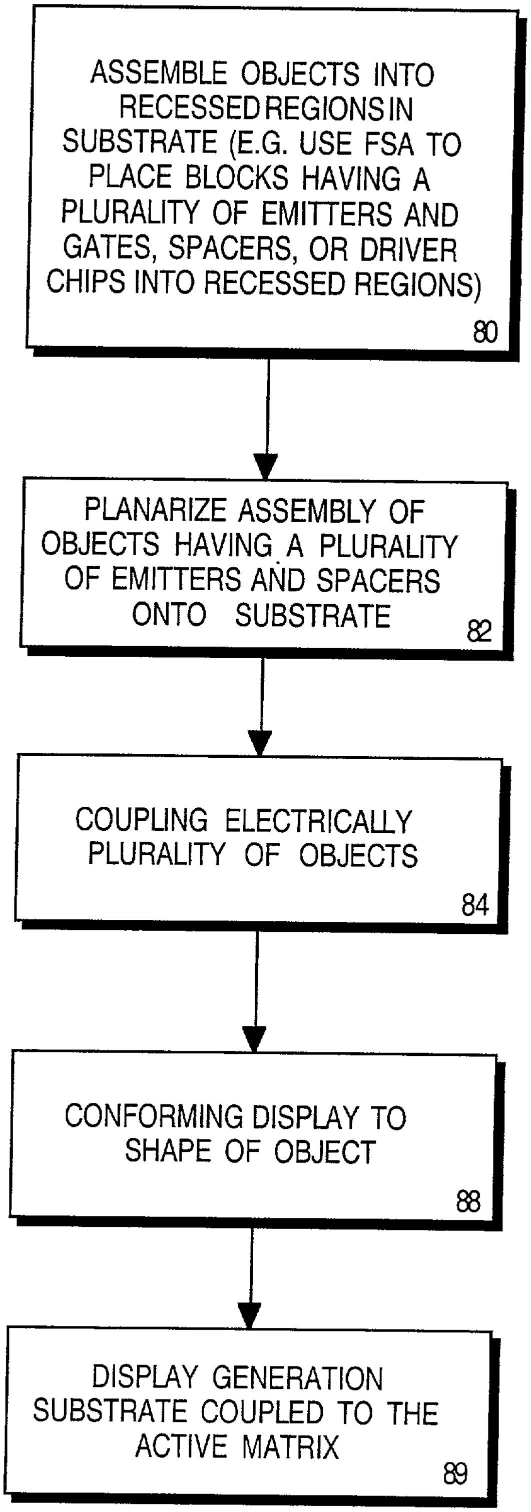

ASSEMBLE OBJECTS INTO RECESSED REGIONS IN SUBSTRATE (E.G. USE FSA TO PLACE BLOCKS HAVING A PLURALITY OF EMITTERS AND GATES, SPACERS, OR DRIVER CHIPS INTO RECESSED REGIONS)
80
PLANARIZE ASSEMBLY OF OBJECTS HAVING A PLURALITY OF EMITTERS AND SPACERS ONTO SUBSTRATE
82
COUPLING ELECTRICALLY PLURALITY OF OBJECTS
84
CONFORMING DISPLAY TO SHAPE OF OBJECT
88
DISPLAY GENERATION SUBSTRATE COUPLED TO THE ACTIVE MATRIX
89

Fig. 15

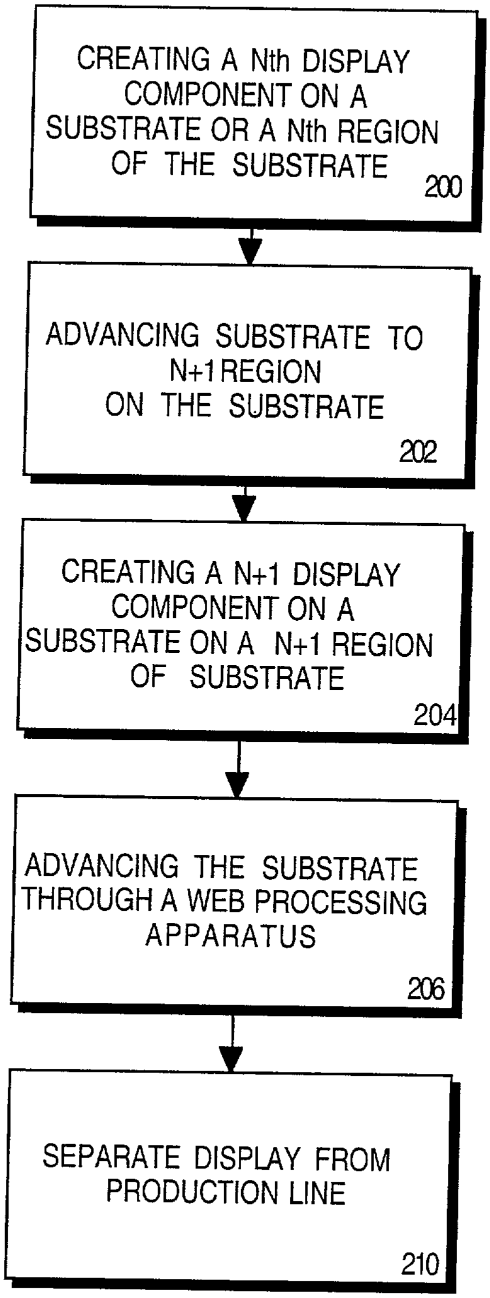

CREATING A Nth DISPLAY COMPONENT ON A SUBSTRATE OR A Nth REGION OF THE SUBSTRATE
200
ADVANCING SUBSTRATE TO N+1 REGION ON THE SUBSTRATE
202
CREATING A N+1 DISPLAY COMPONENT ON A SUBSTRATE ON A N+1 REGION OF SUBSTRATE
204
ADVANCING THE SUBSTRATE THROUGH A WEB PROCESSING APPARATUS
206
SEPARATE DISPLAY FROM PRODUCTION LINE
210

Fig. 16

10471780 . 50423650

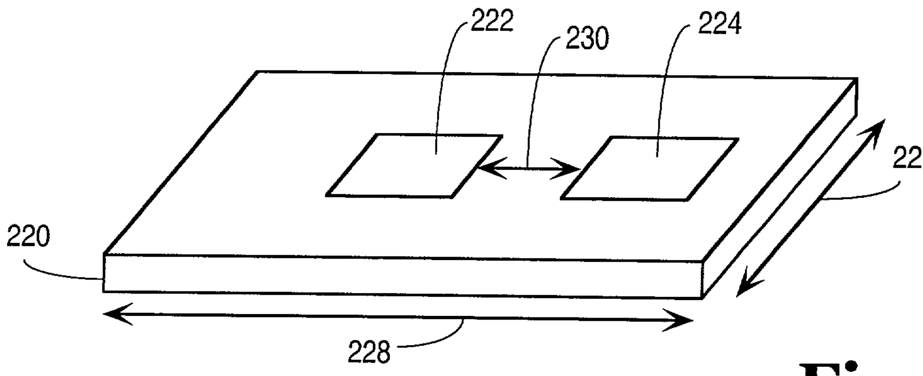


Fig. 17

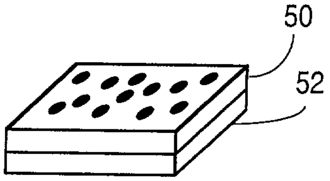


Fig. 18

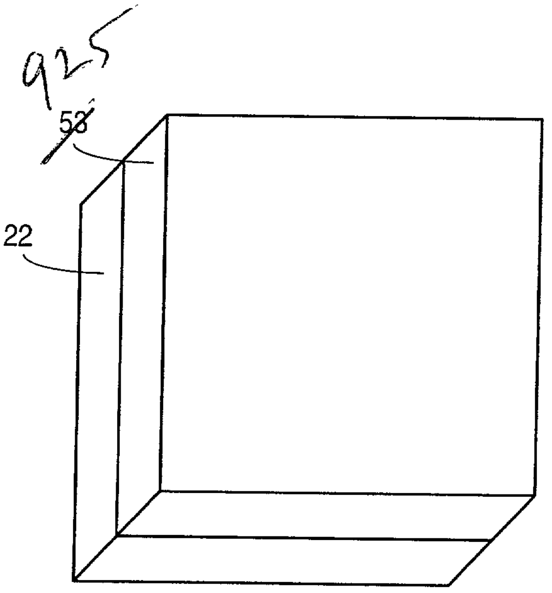


Fig. 19

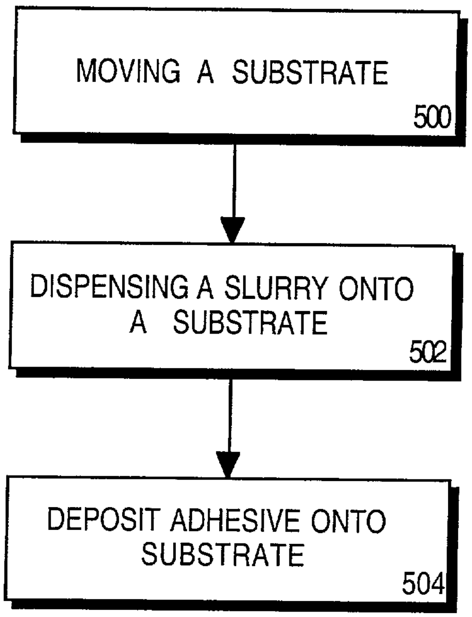

MOVING A SUBSTRATE
500
DISPENSING A SLURRY ONTO A SUBSTRATE
502
DEPOSIT ADHESIVE ONTO SUBSTRATE
504

Fig. 20A

09932406.081701

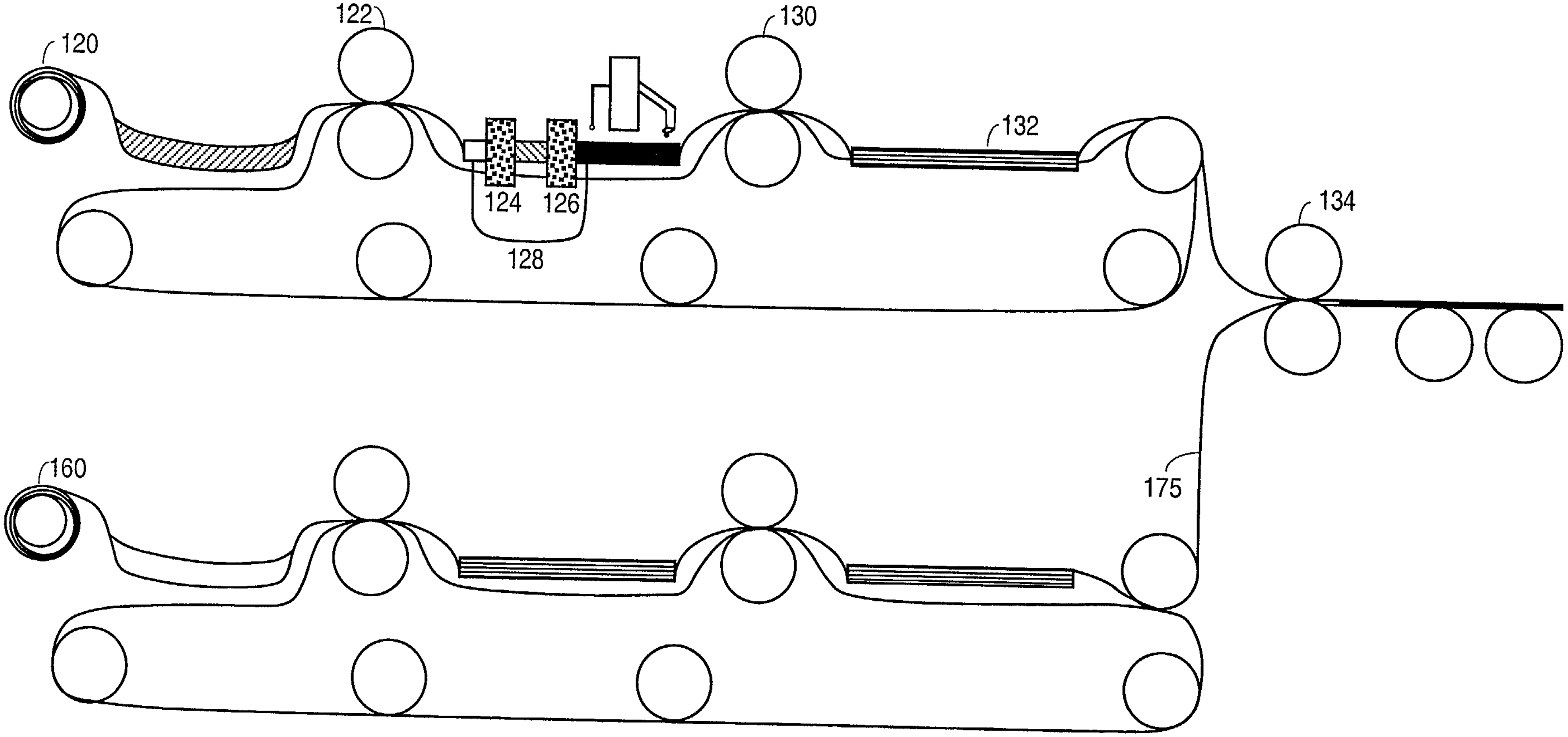


Fig. 20B

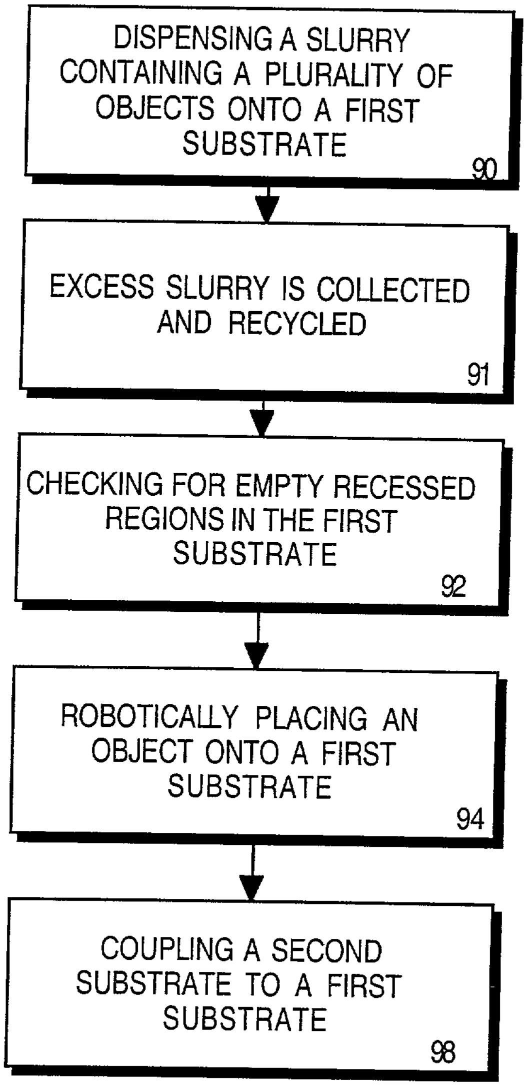

DISPENSING A SLURRY CONTAINING A PLURALITY OF OBJECTS ONTO A FIRST SUBSTRATE
90
EXCESS SLURRY IS COLLECTED AND RECYCLED
91
CHECKING FOR EMPTY RECESSED REGIONS IN THE FIRST SUBSTRATE
92
ROBOTICALLY PLACING AN OBJECT ONTO A FIRST SUBSTRATE
94
COUPLING A SECOND SUBSTRATE TO A FIRST SUBSTRATE
98

Fig. 21

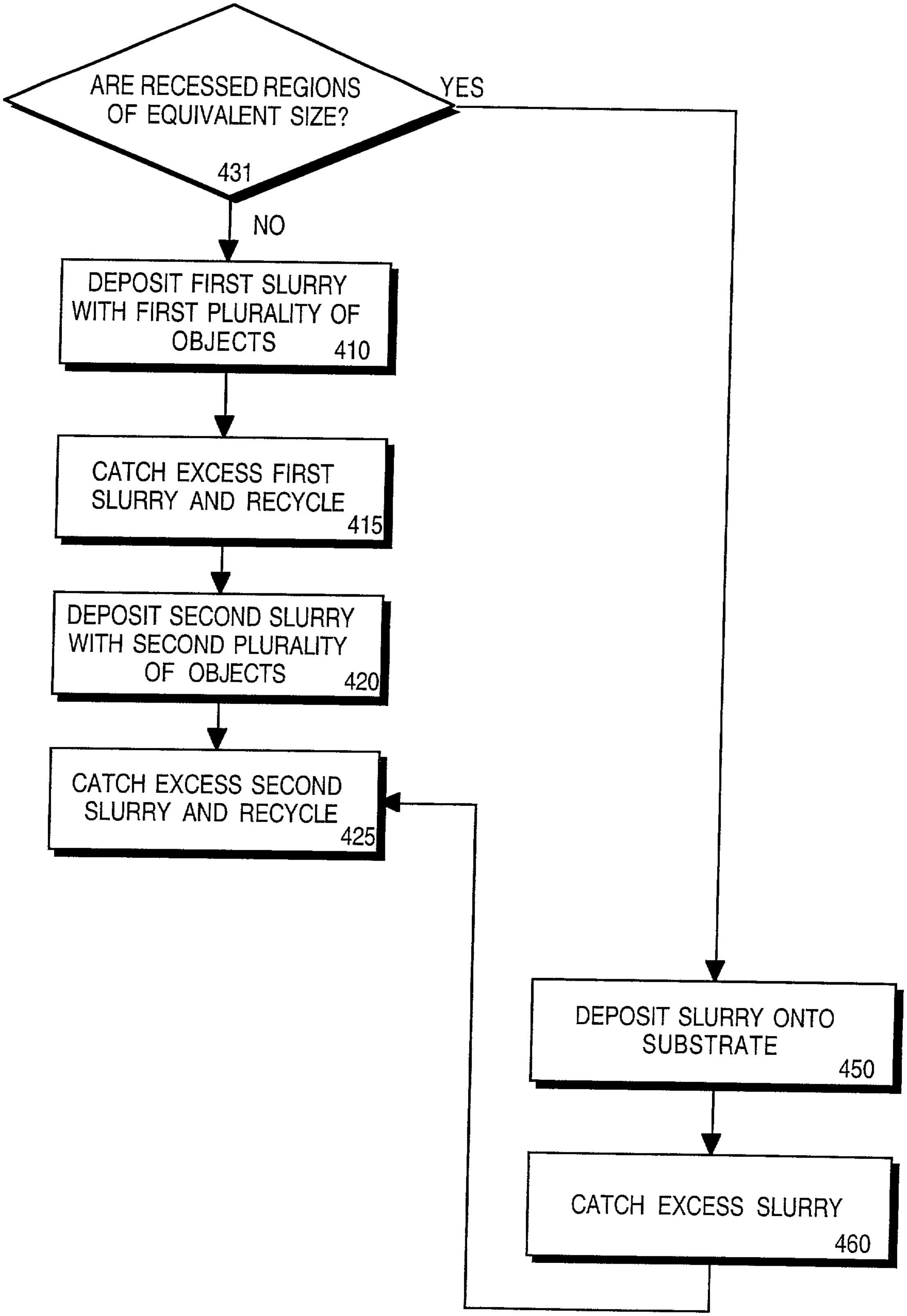

ARE RECESSED REGIONS OF EQUIVALENT SIZE?
431
YES
NO
DEPOSIT FIRST SLURRY WITH FIRST PLURALITY OF OBJECTS
410
CATCH EXCESS FIRST SLURRY AND RECYCLE
415
DEPOSIT SECOND SLURRY WITH SECOND PLURALITY OF OBJECTS
420
CATCH EXCESS SECOND SLURRY AND RECYCLE
425
DEPOSIT SLURRY ONTO SUBSTRATE
450
CATCH EXCESS SLURRY
460

Fig. 22

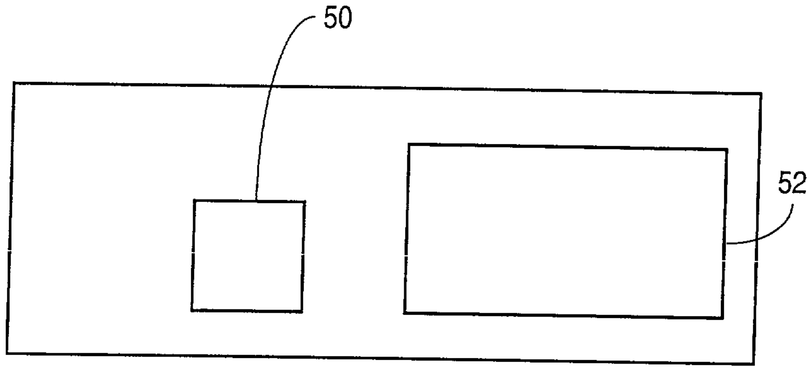


Fig. 23

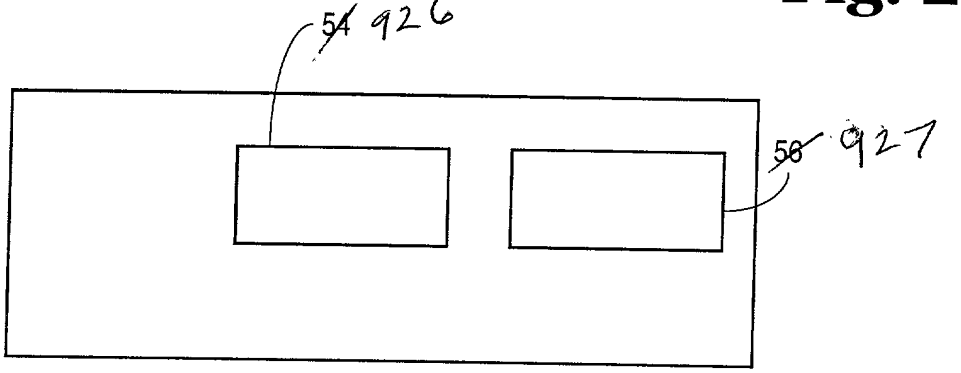


Fig. 24

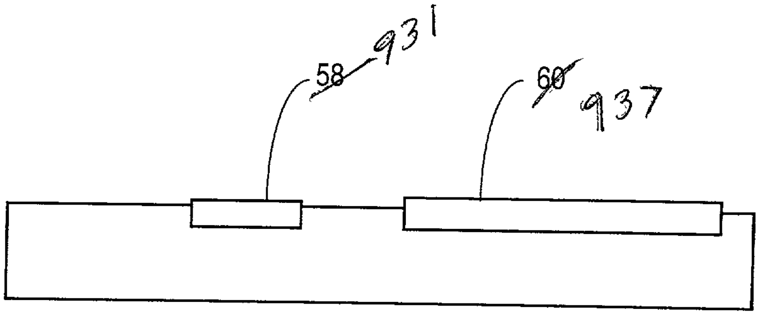


Fig. 25

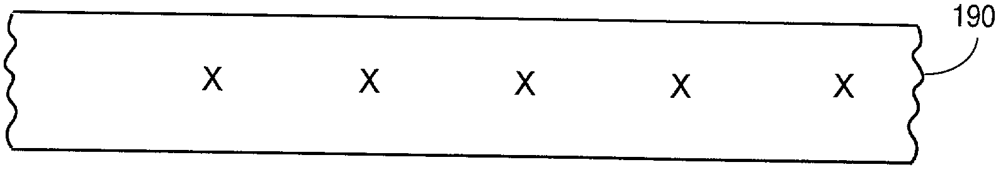


Fig. 26a

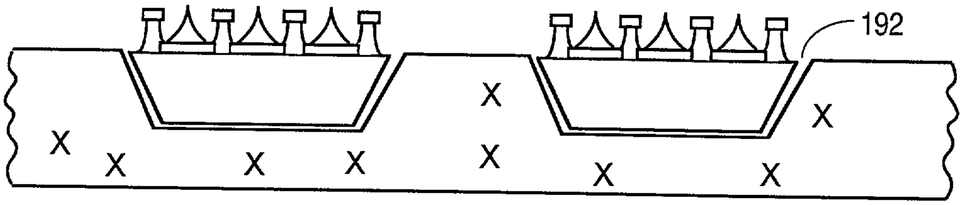


Fig. 26b

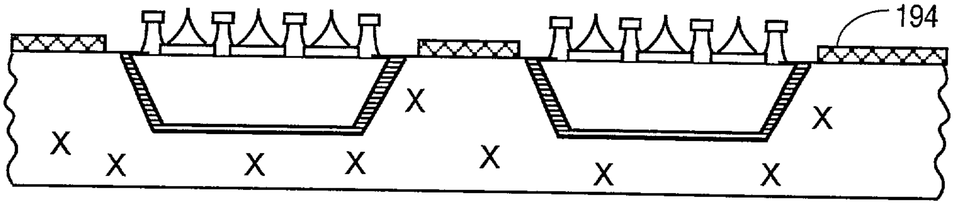


Fig. 26c

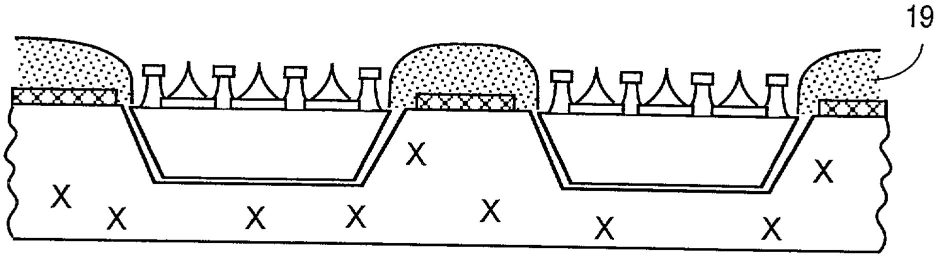


Fig. 26d

09632406.081701

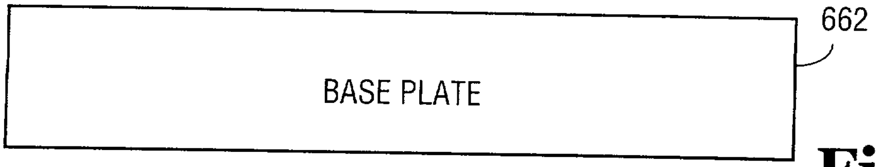


Fig. 27A

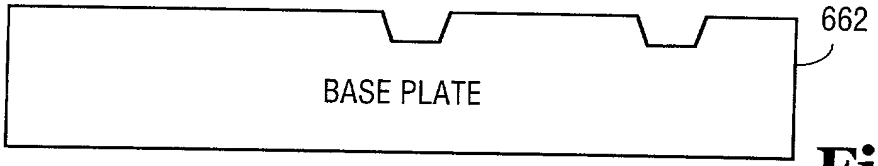


Fig. 27B

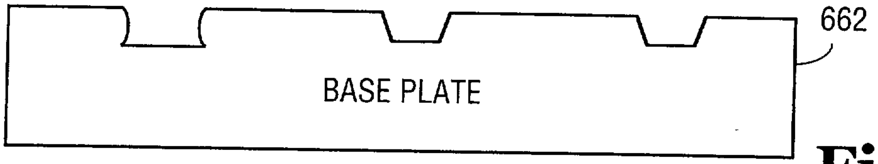


Fig. 27C

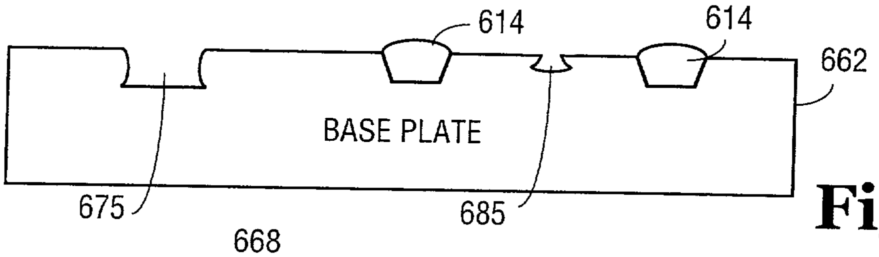


Fig. 27D

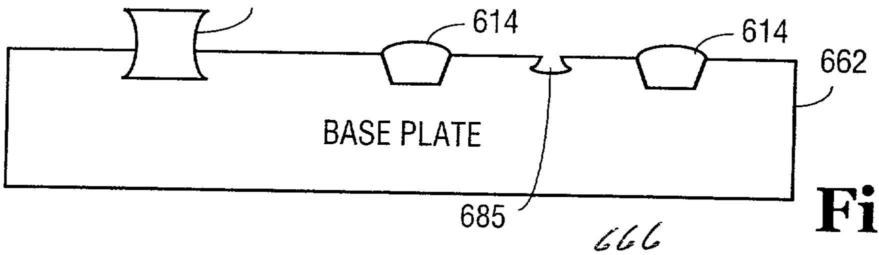


Fig. 27E

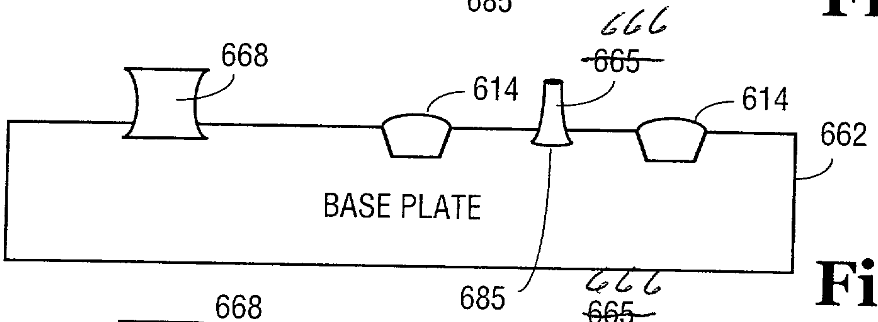


Fig. 27F

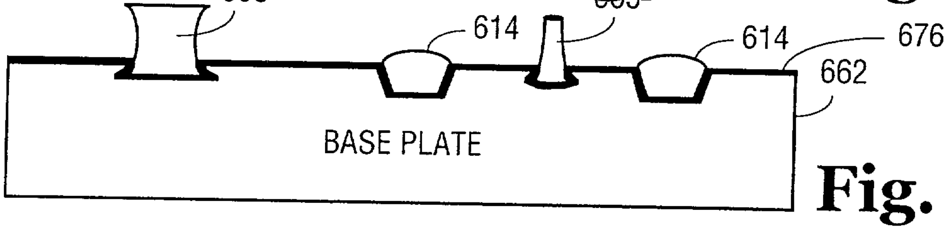


Fig. 27G

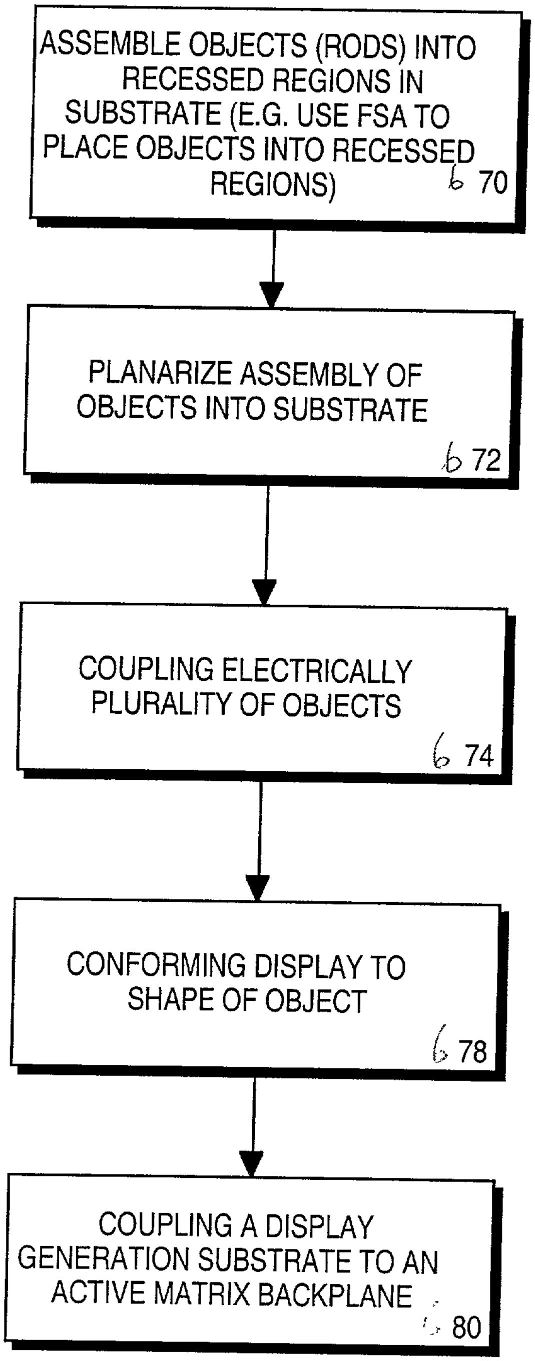
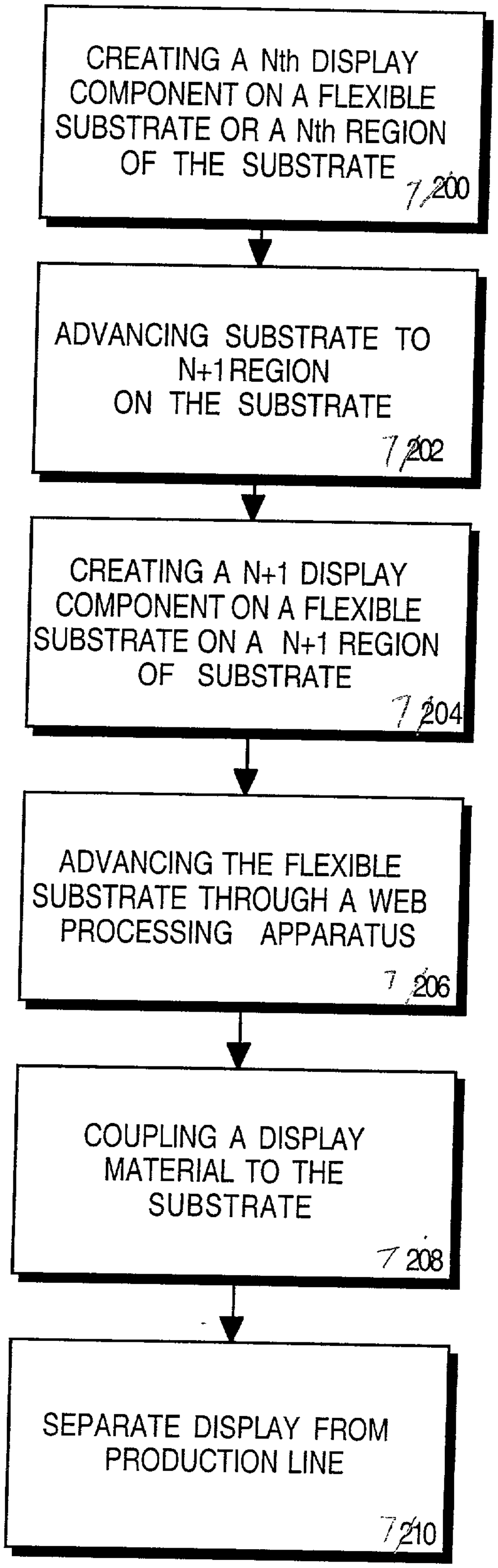

ASSEMBLE OBJECTS (RODS) INTO RECESSED REGIONS IN SUBSTRATE (E.G. USE FSA TO PLACE OBJECTS INTO RECESSED REGIONS)
70
PLANARIZE ASSEMBLY OF OBJECTS INTO SUBSTRATE
72
COUPLING ELECTRICALLY PLURALITY OF OBJECTS
74
CONFORMING DISPLAY TO SHAPE OF OBJECT
78
COUPLING A DISPLAY GENERATION SUBSTRATE TO AN ACTIVE MATRIX BACKPLANE
80

Fig. 28

09932406 .081701

09632405.101701



CREATING A Nth DISPLAY COMPONENT ON A FLEXIBLE SUBSTRATE OR A Nth REGION OF THE SUBSTRATE
7200
ADVANCING SUBSTRATE TO N+1 REGION ON THE SUBSTRATE
7202
CREATING A N+1 DISPLAY COMPONENT ON A FLEXIBLE SUBSTRATE ON A N+1 REGION OF SUBSTRATE
7204
ADVANCING THE FLEXIBLE SUBSTRATE THROUGH A WEB PROCESSING APPARATUS
7206
COUPLING A DISPLAY MATERIAL TO THE SUBSTRATE
7208
SEPARATE DISPLAY FROM PRODUCTION LINE
7210

Fig. 29

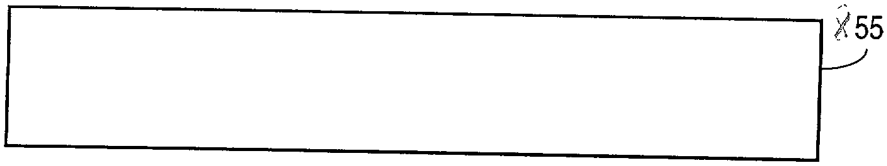


Fig. 30A

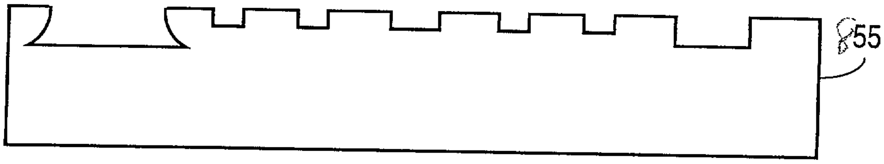


Fig. 30B

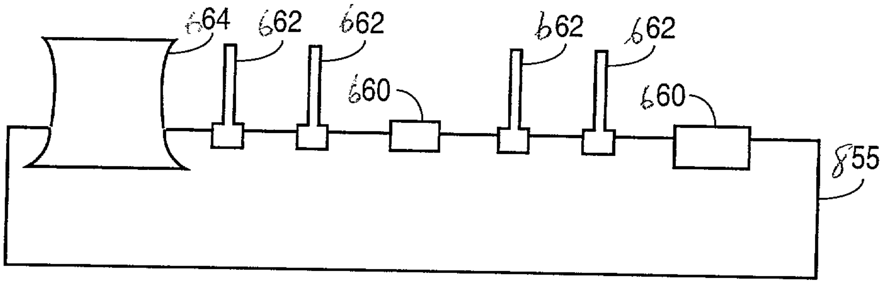


Fig. 30C

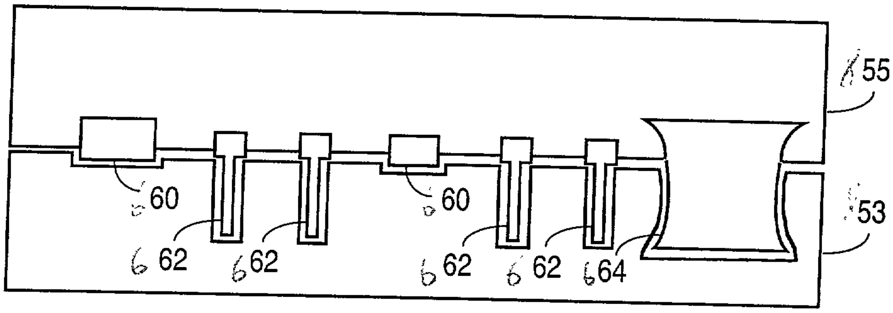


Fig. 30D

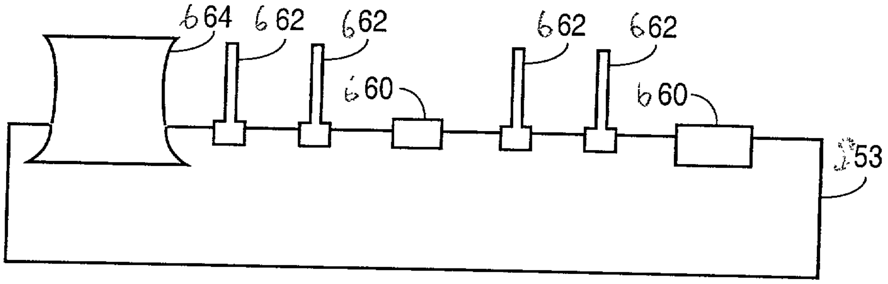


Fig. 30E

09932406 .081701

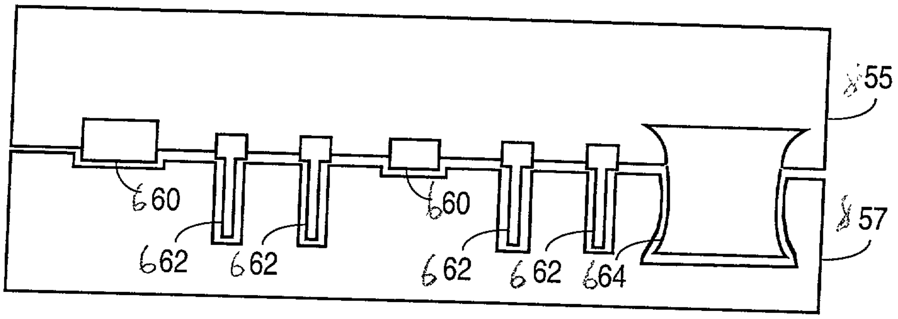


Fig. 30F

09932406.081701